



Absaroka
Max Dahlgren
112 High St.

May 15, 2025

Buffalo WY 82834

Project Name - KMG - Miller 2&7-7 Facility

Project Number - [none]

Attached are your analytical results for KMG - Miller 2&7-7 Facility received by Origins Laboratory May 02, 2025. This project is associated with Origins project number E5E0127-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows: "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW-N02@2'	E5E0127-01	Soil	May 2, 2025 13:00	05/02/2025 15:51
PW-S02@2'	E5E0127-02	Soil	May 2, 2025 13:05	05/02/2025 15:51
PW-E02@2'	E5E0127-03	Soil	May 2, 2025 13:10	05/02/2025 15:51
PW-W02@2'	E5E0127-04	Soil	May 2, 2025 13:15	05/02/2025 15:51

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

Page 1 of 1

ESF0127

Client: OXY / Absaroka
Address: _____
Telephone Number: 970-481-6909
Email Address: oxy.co.rem@absarokasolutions.com

Project Manager: Max Dahlgren
Project Name: Miller 2-7-7 Facility
Project Number: _____
Collected By: CF
Invoice/Billing Info: On File - Oxy

GW=Groundwater
SW=Surface Water
WW=Waste Water

Analysis: HMO3-Mirco, H2S, As, Sulfit, TMO3-Selenium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
						Full gts	PH, SAR, EC	gts Metals	
PW-N02021	5/2/25	13:00	3	S	UNP	X			
PW-S02021		13:05				X			
PW-E02021		13:10				X			
PW-W02021		13:15				X			
W02021									

Requisitioned By: [Signature] Date: 5/2/25 Time: 15:33


Received By: NLM Date: 05/02/25 Time: 15:51

Requisitioned By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Turnaround Time: SAME DAY 24 DAY 48 Hr 72 Standard

Temp Received: 2.1C Received On Ice? Yes No

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Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: ESE0127

Client: Absaroka

Client Project ID: Miller 2-7+7 Facility

Checklist Completed by: NKM/GRD

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 05/02/25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 2.1 °C

Thermometer ID: T-007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ^{(1)?}	/			
Was adequate sample volume provided ^{(1)?}	/			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		/		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	/			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	/			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	/			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

05/05/25
Date/Time Reviewed

Origins Laboratory



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Kayla Kenyon For Jordan A. Bynon, Project Manager

ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-N02@2'

5/2/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0127-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.101	mg/L	1	B5E0623	05/06/2025	05/07/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0727	05/07/2025	05/07/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	121 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0266	05/02/2025	05/09/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	117 %			70-130		"	"	"	
Surrogate: Toluene-d8	91.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

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 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Miller 2&7-7 Facility

PW-N02@2'

5/2/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0127-01 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.28		0.499	meq/L	10	[CALC]	05/08/2025	05/12/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0845	05/08/2025	05/13/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.018		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.023		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.024		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.022		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.033		0.020	"	"	"	"	"	

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PW-N02@2'

5/2/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0127-01 (Soil)
Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	99.5 %			60-130		B5E0845	05/08/2025	05/13/2025	
Surrogate: Anthracene-d10	97.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B5E0859	05/08/2025	05/10/2025	
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SAR by 20B Saturated Paste

SAR	0.0728		0.0100	SAR	1	B5E0854	05/08/2025	05/12/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.208		0.00500	mmhos/cm	1	B5E0859	05/08/2025	05/10/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.90		0.288	mg/kg	10	B5E0608	05/06/2025	05/07/2025	
Barium	85.6		81.5	"	"	"	"	"	
Cadmium	ND		0.378	"	"	"	"	"	U
Copper	ND		45.7	"	"	"	"	"	U
Lead	17.4		13.9	"	"	"	"	"	
Nickel	ND		25.9	"	"	"	"	"	U

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 Project Number: [none]
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PW-N02@2'

5/2/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0127-01 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Selenium	ND		0.259	mg/kg	10	B5E0608	05/06/2025	05/07/2025	U
Silver	ND		0.796	"	"	"	"	"	U
Zinc	ND		368	"	"	"	"	"	U

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L815494	05/02/2025	05/07/2025	
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112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-S02@2'

5/2/2025 1:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0127-02 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.139		0.0998	mg/L	1	B5E0623	05/06/2025	05/07/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0727	05/07/2025	05/07/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	117 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0266	05/02/2025	05/09/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	119 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %			70-130		"	"	"	

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Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-S02@2'

5/2/2025 1:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0127-02 (Soil)									
Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	1.25		0.499	meq/L	10	[CALC]	05/08/2025	05/12/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0845	05/08/2025	05/13/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.010		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-S02@2'

5/2/2025 1:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0127-02 (Soil)
Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E0845	05/08/2025	05/13/2025	U
Surrogate: Fluorene-d10	99.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B5E0859	05/08/2025	05/10/2025	
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SAR by 20B Saturated Paste

SAR	0.197		0.0100	SAR	1	B5E0854	05/08/2025	05/12/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.209		0.00500	mmhos/cm	1	B5E0859	05/08/2025	05/10/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.25		0.277	mg/kg	10	B5E0608	05/06/2025	05/07/2025	
Barium	115		78.3	"	"	"	"	"	
Cadmium	ND		0.363	"	"	"	"	"	U
Copper	ND		44.0	"	"	"	"	"	U

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Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-S02@2'

5/2/2025 1:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0127-02 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	16.8		13.4	mg/kg	10	B5E0608	05/06/2025	05/07/2025	
Nickel	ND		24.8	"	"	"	"	"	U
Selenium	ND		0.248	"	"	"	"	"	U
Silver	ND		0.764	"	"	"	"	"	U
Zinc	ND		354	"	"	"	"	"	U

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L815494	05/02/2025	05/07/2025	
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Absaroka
112 High St.
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Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-E02@2'

5/2/2025 1:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0127-03 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.102	mg/L	1	B5E0623	05/06/2025	05/07/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0727	05/07/2025	05/07/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	112 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0266	05/02/2025	05/09/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	118 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

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Absaroka
112 High St.
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Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-E02@2'

5/2/2025 1:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0127-03 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	0.827		0.499	meq/L	10	[CALC]	05/08/2025	05/12/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0845	05/08/2025	05/13/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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Absaroka
112 High St.
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Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-E02@2'

5/2/2025 1:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0127-03 (Soil)
Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E0845	05/08/2025	05/13/2025	U
Surrogate: Fluorene-d10	99.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.30			pH Units	1	B5E0859	05/08/2025	05/10/2025	
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SAR by 20B Saturated Paste

SAR	0.0802		0.0100	SAR	1	B5E0854	05/08/2025	05/12/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.148		0.00500	mmhos/cm	1	B5E0859	05/08/2025	05/10/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.19		0.270	mg/kg	10	B5E0608	05/06/2025	05/07/2025	
Barium	ND		76.2	"	"	"	"	"	U
Cadmium	ND		0.353	"	"	"	"	"	U
Copper	ND		42.8	"	"	"	"	"	U

Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-E02@2'

5/2/2025 1:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0127-03 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.0	mg/kg	10	B5E0608	05/06/2025	05/07/2025	U
Nickel	ND		24.2	"	"	"	"	"	U
Selenium	ND		0.242	"	"	"	"	"	U
Silver	ND		0.744	"	"	"	"	"	U
Zinc	ND		344	"	"	"	"	"	U

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L815494	05/02/2025	05/07/2025	
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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-W02@2'
5/2/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0127-04 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E0623	05/06/2025	05/07/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0727	05/07/2025	05/07/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	106 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0266	05/02/2025	05/09/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	113 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Origins Laboratory



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 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Miller 2&7-7 Facility

PW-W02@2'
 5/2/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0127-04 (Soil)									
Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	05/08/2025	05/12/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0845	05/08/2025	05/13/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Origins Laboratory



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Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-W02@2'
5/2/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0127-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E0845	05/08/2025	05/13/2025	U
Surrogate: Fluorene-d10	99.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.68			pH Units	1	B5E0859	05/08/2025	05/10/2025	
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SAR by 20B Saturated Paste

SAR	0.269		0.0100	SAR	1	B5E0854	05/08/2025	05/12/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0879		0.00500	mmhos/cm	1	B5E0859	05/08/2025	05/10/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.53		0.250	mg/kg	10	B5E0608	05/06/2025	05/07/2025	
Barium	108		70.8	"	"	"	"	"	
Cadmium	ND		0.328	"	"	"	"	"	U
Copper	ND		39.7	"	"	"	"	"	U

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

PW-W02@2'

5/2/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0127-04 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		12.1	mg/kg	10	B5E0608	05/06/2025	05/07/2025	U
Nickel	ND		22.5	"	"	"	"	"	U
Selenium	ND		0.225	"	"	"	"	"	U
Silver	ND		0.691	"	"	"	"	"	U
Zinc	ND		320	"	"	"	"	"	U

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L815494	05/02/2025	05/07/2025	
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Origins Laboratory



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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0623 - DTPA Sorbitol Preparation

Blank (B5E0623-BLK1)

Prepared: 05/06/2025 Analyzed: 05/07/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E0623-DUP1)

Source: E5E0127-01

Prepared: 05/06/2025 Analyzed: 05/07/2025

Boron	0.0398	0.0995	mg/L		0.0440			10.1	50	U
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Batch B5E0854 - Saturated Paste Metals

Blank (B5E0854-BLK1)

Prepared: 05/08/2025 Analyzed: 05/12/2025

Calcium PPM	ND	10.0	mg/L							U
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SAR	ND	0.0100	SAR							U
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Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B5E0854-DUP1)

Source: E5D0903-03

Prepared: 05/08/2025 Analyzed: 05/12/2025

SAR	ND	0.0100	SAR		9.74				200	U
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Calcium PPM	85.5	10.0	mg/L		79.0			7.99	50	
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Magnesium PPM	126	10.0	"		117			7.05	50	
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Sodium PPM	624	10.0	"		584			6.65	50	
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Max Dahlgren
 Project Number: [none]
 Project: KMG - Miller 2&7-7 Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0845 - EPA 3580

Blank (B5E0845-BLK1)

Prepared: 05/08/2025 Analyzed: 05/13/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130			

LCS (B5E0845-BS1)

Prepared: 05/08/2025 Analyzed: 05/13/2025

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200		105	70-130			
2-Methylnaphthalene	0.210	0.002	"	0.200		105	70-130			
Acenaphthene	0.209	0.020	"	0.200		105	70-130			
Anthracene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200		96.7	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200		98.3	70-130			

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0845 - EPA 3580

LCS (B5E0845-BS1)

Prepared: 05/08/2025 Analyzed: 05/13/2025

Benzo (b) fluoranthene	0.199	0.020	mg/kg	0.200		99.6	70-130			
Benzo (k) fluoranthene	0.207	0.020	"	0.200		103	70-130			
Chrysene	0.204	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.213	0.020	"	0.200		106	70-130			
Fluoranthene	0.209	0.020	"	0.200		105	70-130			
Fluorene	0.207	0.020	"	0.200		104	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200		98.5	70-130			
Naphthalene	0.209	0.002	"	0.200		104	70-130			
Pyrene	0.204	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	190		"	200		96.9	60-130			
Surrogate: Pyrene-d10	200		"	200		98.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

Matrix Spike (B5E0845-MS1)

Source: E5E0127-01

Prepared: 05/08/2025 Analyzed: 05/13/2025

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	108	70-130			
Acenaphthene	0.218	0.020	"	0.200	0.0002	109	70-130			
Anthracene	0.207	0.020	"	0.200	0.004	101	70-130			
Benzo (a) anthracene	0.229	0.005	"	0.200	0.018	105	70-130			
Benzo (a) pyrene	0.236	0.020	"	0.200	0.023	106	70-130			
Benzo (b) fluoranthene	0.235	0.020	"	0.200	0.010	112	70-130			
Benzo (k) fluoranthene	0.222	0.020	"	0.200	0.010	106	70-130			
Chrysene	0.228	0.020	"	0.200	0.024	102	70-130			
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	0.006	108	70-130			
Fluoranthene	0.237	0.020	"	0.200	0.022	107	70-130			
Fluorene	0.216	0.020	"	0.200	0.0004	108	70-130			

Origins Laboratory



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112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0845 - EPA 3580

Matrix Spike (B5E0845-MS1)

Source: E5E0127-01

Prepared: 05/08/2025 Analyzed: 05/13/2025

Indeno (1,2,3-cd) pyrene	0.217	0.020	mg/kg	0.200	0.013	102	70-130			
Naphthalene	0.215	0.002	"	0.200	ND	107	70-130			
Pyrene	0.250	0.020	"	0.200	0.033	108	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

Matrix Spike Dup (B5E0845-MSD1)

Source: E5E0127-01

Prepared: 05/08/2025 Analyzed: 05/13/2025

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200	ND	106	70-130	1.91	20	
2-Methylnaphthalene	0.213	0.002	"	0.200	ND	106	70-130	1.91	20	
Acenaphthene	0.213	0.020	"	0.200	0.0002	106	70-130	2.32	20	
Anthracene	0.204	0.020	"	0.200	0.004	100	70-130	1.25	20	
Benzo (a) anthracene	0.220	0.005	"	0.200	0.018	101	70-130	4.03	20	
Benzo (a) pyrene	0.230	0.020	"	0.200	0.023	104	70-130	2.25	20	
Benzo (b) fluoranthene	0.227	0.020	"	0.200	0.010	109	70-130	3.25	20	
Benzo (k) fluoranthene	0.217	0.020	"	0.200	0.010	103	70-130	2.57	20	
Chrysene	0.229	0.020	"	0.200	0.024	102	70-130	0.190	20	
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	0.006	108	70-130	0.320	20	
Fluoranthene	0.229	0.020	"	0.200	0.022	103	70-130	3.06	20	
Fluorene	0.212	0.020	"	0.200	0.0004	106	70-130	1.54	20	
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	0.013	102	70-130	0.0884	20	
Naphthalene	0.211	0.002	"	0.200	ND	106	70-130	1.58	20	
Pyrene	0.239	0.020	"	0.200	0.033	103	70-130	4.61	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		97.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.8	60-130			

Origins Laboratory



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112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0845 - EPA 3580

Matrix Spike Dup (B5E0845-MSD1)

Source: E5E0127-01

Prepared: 05/08/2025 Analyzed: 05/13/2025

Surrogate: Benzo (a) pyrene-d12	210		ug/kg	200		103	60-130			
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0727 - EPA 3550B

Blank (B5E0727-BLK1)

Prepared: 05/07/2025 Analyzed: 05/07/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		116	50-150			

LCS (B5E0727-BS1)

Prepared: 05/07/2025 Analyzed: 05/07/2025

Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	65		"	49.8		130	50-150			

Matrix Spike (B5E0727-MS1)

Source: E5E0109-01

Prepared: 05/07/2025 Analyzed: 05/07/2025

Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130			
Residual Range Organics (C28-C40)	864	200	"	1000	ND	86.4	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Matrix Spike Dup (B5E0727-MSD1)

Source: E5E0109-01

Prepared: 05/07/2025 Analyzed: 05/07/2025

Diesel (C10-C28)	909	50.0	mg/kg	1000	ND	90.9	70-130	0.369	35	
Residual Range Organics (C28-C40)	857	200	"	1000	ND	85.7	70-130	0.814	35	
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Miller 2&7-7 Facility

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0608 - EPA 3050B

Blank (B5E0608-BLK1)

Prepared: 05/06/2025 Analyzed: 05/07/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U

LCS (B5E0608-BS1)

Prepared: 05/06/2025 Analyzed: 05/07/2025

Arsenic	5.15	0.290	mg/kg	5.00		103	80-120			
Barium	533	82.0	"	500		107	80-120			
Cadmium	5.12	0.380	"	5.00		102	80-120			
Copper	49.9	46.0	"	50.0		99.7	80-120			
Lead	5.13	14.0	"	5.00		103	80-120			U
Nickel	4.97	26.0	"	5.00		99.4	80-120			U
Selenium	5.47	0.260	"	5.00		109	80-120			
Silver	5.15	0.800	"	5.00		103	80-120			
Zinc	52.6	370	"	50.0		105	80-120			U

Matrix Spike (B5E0608-MS1)

Source: E5E0121-01

Prepared: 05/06/2025 Analyzed: 05/07/2025

Arsenic	5.35	0.246	mg/kg	4.24	1.15	99.1	75-125			
Barium	484	69.5	"	424	43.0	104	75-125			
Cadmium	4.34	0.322	"	4.24	0.0565	101	75-125			
Copper	43.5	39.0	"	42.4	1.67	98.7	75-125			
Lead	9.84	11.9	"	4.24	5.39	105	75-125			U

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 Project: KMG - Miller 2&7-7 Facility

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0608 - EPA 3050B

Matrix Spike (B5E0608-MS1)

Source: E5E0121-01

Prepared: 05/06/2025 Analyzed: 05/07/2025

Nickel	5.70	22.0	mg/kg	4.24	1.62	96.5	75-125			U
Selenium	4.48	0.220	"	4.24	0.0538	104	75-125			
Silver	4.44	0.678	"	4.24	0.0738	103	75-125			
Zinc	50.2	313	"	42.4	6.50	103	75-125			U

Matrix Spike Dup (B5E0608-MSD1)

Source: E5E0121-01

Prepared: 05/06/2025 Analyzed: 05/07/2025

Arsenic	5.93	0.261	mg/kg	4.50	1.15	106	75-125	10.4	20	
Barium	534	73.8	"	450	43.0	109	75-125	9.85	20	
Cadmium	4.80	0.342	"	4.50	0.0565	105	75-125	10.1	20	
Copper	48.8	41.4	"	45.0	1.67	105	75-125	11.6	20	
Lead	10.6	12.6	"	4.50	5.39	116	75-125	7.46	20	U
Nickel	6.62	23.4	"	4.50	1.62	111	75-125	14.9	20	U
Selenium	4.88	0.234	"	4.50	0.0538	107	75-125	8.61	20	
Silver	4.90	0.720	"	4.50	0.0738	107	75-125	9.91	20	
Zinc	58.2	333	"	45.0	6.50	115	75-125	14.7	20	U

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 Project Number: [none]
 Project: KMG - Miller 2&7-7 Facility

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0859 - Saturated Paste pH/EC

Blank (B5E0859-BLK1)

Prepared: 05/08/2025 Analyzed: 05/10/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E0859-DUP1)

Source: E5E0106-01

Prepared: 05/08/2025 Analyzed: 05/10/2025

pH	8.39		pH Units		8.01			4.63	25	
Specific Conductance (EC)	4.10	0.00500	mmhos/cm		1.87			74.9	25	QR-DUP

Origins Laboratory

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Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0266 - EPA 5030 (soil)

Blank (B5E0266-BLK1)

Prepared: 05/02/2025 Analyzed: 05/09/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

LCS (B5E0266-BS1)

Prepared: 05/02/2025 Analyzed: 05/09/2025

1,2,4-Trimethylbenzene	0.0961	0.00200	mg/kg	0.100		96.1	70-130			
1,3,5-Trimethylbenzene	0.0992	0.00200	"	0.100		99.2	70-130			
Benzene	0.0803	0.00200	"	0.100		80.3	70-130			
Ethylbenzene	0.0922	0.00200	"	0.100		92.2	70-130			
Toluene	0.0862	0.00200	"	0.100		86.2	70-130			
o-Xylene	0.0924	0.00200	"	0.100		92.4	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

Matrix Spike (B5E0266-MS1)

Source: E5E0106-01

Prepared: 05/02/2025 Analyzed: 05/09/2025

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.0966	0.00200	"	0.100	0.000760	95.9	70-130			

Origins Laboratory

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Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0266 - EPA 5030 (soil)

Matrix Spike (B5E0266-MS1)

Source: E5E0106-01

Prepared: 05/02/2025 Analyzed: 05/09/2025

Ethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
o-Xylene	0.0996	0.00200	"	0.100	ND	99.6	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Matrix Spike Dup (B5E0266-MSD1)

Source: E5E0106-01

Prepared: 05/02/2025 Analyzed: 05/09/2025

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	2.59	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	3.54	20	
Benzene	0.0928	0.00200	"	0.100	0.000760	92.1	70-130	4.01	20	
Ethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130	2.65	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	4.20	20	
o-Xylene	0.0990	0.00200	"	0.100	ND	99.0	70-130	0.604	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.3	70-130	2.14	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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 Project Number: [none]
 Project: KMG - Miller 2&7-7 Facility

**Total Metals 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L815494 -										
DUP (L 90005-DUP)			Source: 90005			Prepared: Analyzed: 05/07/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 90005-MS)			Source: 90005			Prepared: Analyzed: 05/07/2025				
Chromium, Hexavalent	32.4	2.5	mg/Kg	39.9	< 0.244	81	75-125			
LCS (LCS)						Prepared: Analyzed: 05/07/2025				
Chromium, Hexavalent	6.25	0.5	mg/Kg	8		78	75-125			
LRB (LRB)						Prepared: Analyzed: 05/07/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Miller 2&7-7 Facility

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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